

**Amendments to the Claims**

1. (CURRENTLY AMENDED) An erasable and programmable non-volatile cell, comprising

- a first transistor ~~(10)~~ having a source, a drain and a gate;
- a floating capacitor ~~(FT)~~ having a floating gate ~~(30)~~ and a control gate ~~(40)~~, said floating gate being connected to said gate of said first transistor; and
- means to detect the state, whether erased or programmed, of the cell;

characterized in that said means to detect the state of the cell comprises a second transistor ~~(20)~~ having a source, a drain and a gate, said second transistor ~~(20)~~ being complementary to said first transistor ~~(10)~~ and said gate of said second transistor being connected to said floating gate ~~(30)~~.

2. (CURRENTLY AMENDED) The cell according to claim 1, characterized in that said first transistor ~~(10)~~ is an n-channel transistor and said second transistor ~~(20)~~ is a p-channel transistor.

3. (CURRENTLY AMENDED) The cell according to claim 2, characterized in that said first and second transistors ~~(10, 20)~~ are MOSFET transistors.

4. (CURRENTLY AMENDED) The cell according to ~~any of claims 1 to 3~~ claim 1, characterized in that the n-well diffusion region of said p-channel transistor ~~(20)~~ is the control gate ~~(40)~~ of said floating capacitor.

5. (CURRENTLY AMENDED) The cell according to ~~any of claims 1 to 4~~ claim 1, characterized in that said floating gate ~~(30)~~ and the gates of said first ~~(10)~~ and second ~~(20)~~ transistors are embodied as single polymer layer.

6. (CURRENTLY AMENDED) Liquid crystal display driver, comprising a non-volatile cell according to ~~any of claims 1 to 5~~ claim 1.

7. (CURRENTLY AMENDED) Portable equipment powered by battery, such as mobile phones, calculators, pagers, comprising a non-volatile cell according to ~~any of claims 1 and 5~~claim 1.
8. (CURRENTLY AMENDED) Use of non-volatile cells according to ~~any of claims 1 to 5~~claim 1 for calibration of electrical parameters in an integrated circuit.